

FIG. 1

FIG. 1b

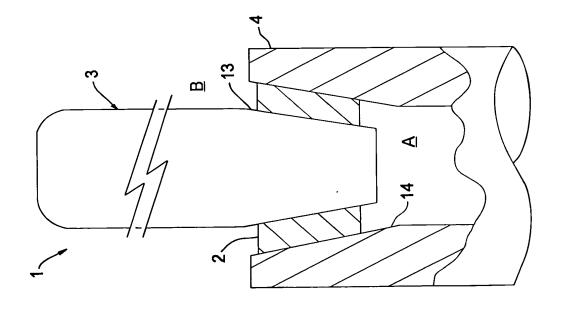
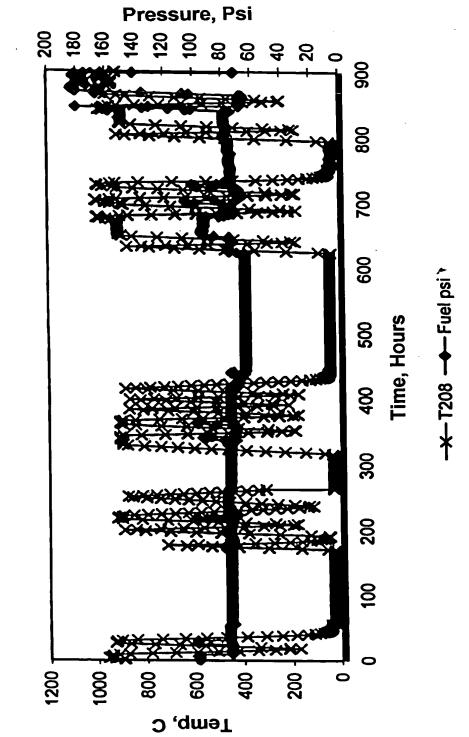
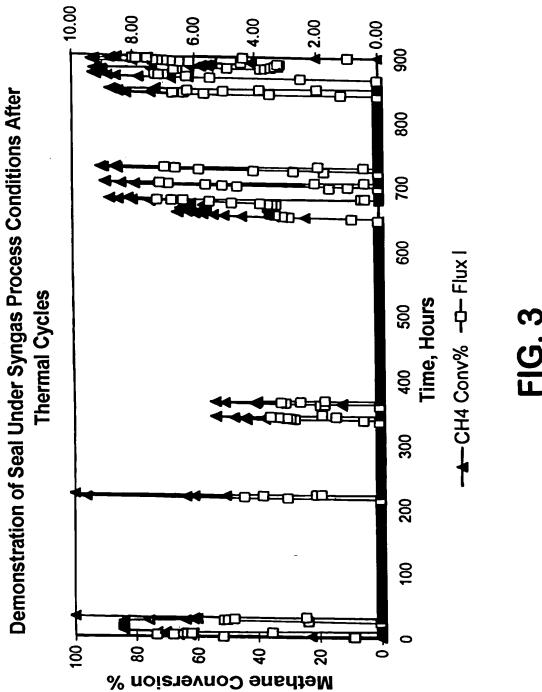


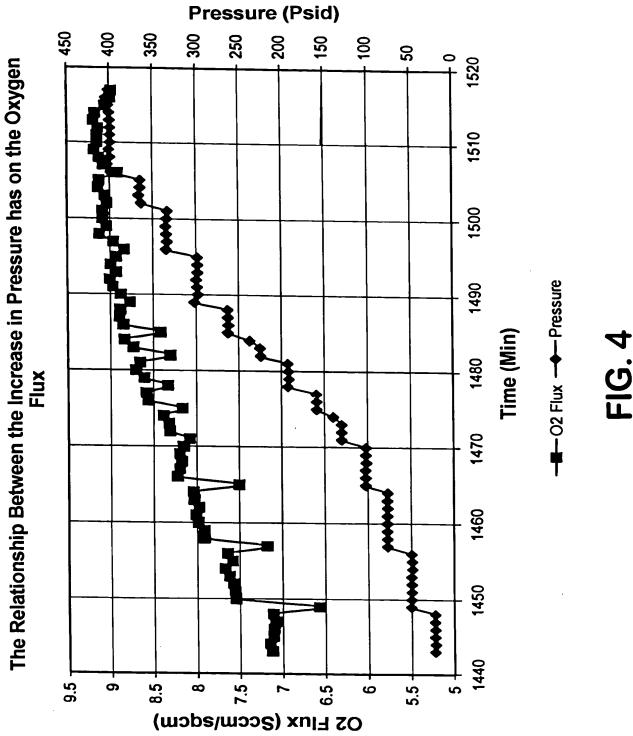
FIG. 1a

Demonstration of Stable Seal in Many Thermal Cycles



Oxygen Flux, (Sccm/sqcm)





200 La0.2Sr0.8Cr0.2O3-x Tube w/1mm Wall, He Sweep @ 2L/m, Air @ 4L/m, 975C 450 **4** 350 Differential Pressure (Psid) 300 250 200 150 100 20 0.0 0.4 0.3 Oxygen Flux (Sccm/sqcm)

FIG. 5

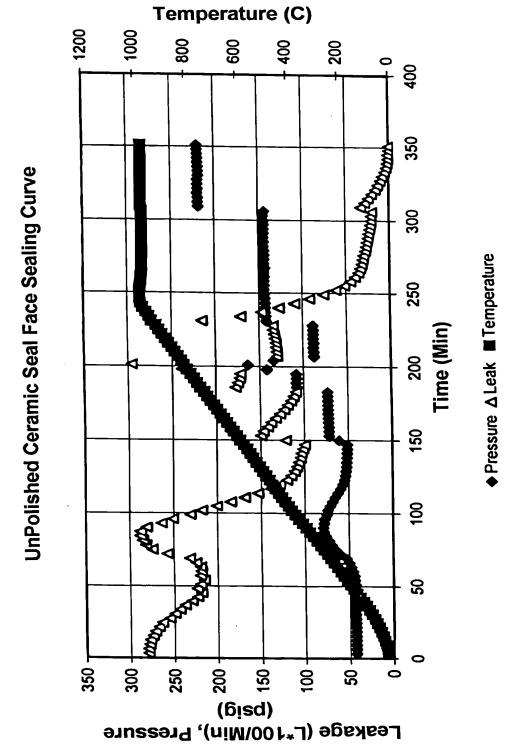


FIG. 6

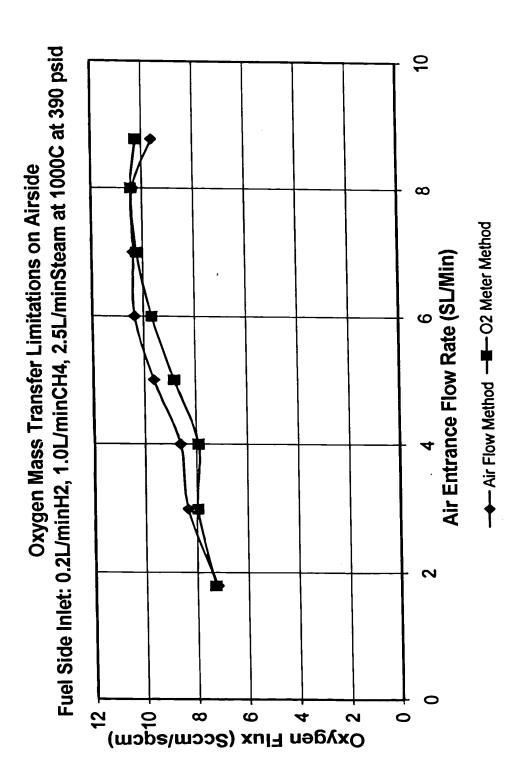


FIG. 7

Fuel Stream Inlet: 0.2L/minH2, 1.0L/minCH4, 2.5L/minSteam at 1000C at 390 psid Oxygen Utilization in Exit Air Stream at Ambient Pressure

